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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/834,918	04/16/2001	Franck Le	017.39657X00	5412	
20457 7590 08/27/2004			EXAMINER		
	, TERRY, STOUT & KF	CHANG, SUNRAY			
1300 NORTH S SUITE 1800	SEVENTEENTH STREET	ART UNIT	PAPER NUMBER		
ARLINGTON, VA 22209-9889			2121		
			DATE MAIL ED: 08/27/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary		Applicatio	n No.	Applicant(s)	da			
		09/834,91	8	LE ET AL.				
		Examiner		Art Unit				
		Sunray Ch		2121				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE MAILIN  - Extensions of ti after SIX (6) MC  - If the period for  - If NO period for  - Failure to reply Any reply receiv	IED STATUTORY PERIOD FOR G DATE OF THIS COMMUNICA me may be available under the provisions of 3' DNTHS from the mailing date of this communic reply specified above is less than thirty (30) dareply is specified above, the maximum statuto within the set or extended period for reply will, yed by the Office later than three months after the serm adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no eve cation. ays, a reply within the statu by period will apply and will by statute, cause the appli	nt, however, may a reply be t tory minimum of thirty (30) da expire SIX (6) MONTHS fror cation to become ABANDON	imely filed  sys will be considered timely.  In the mailing date of this com  ED (35 U.S.C. § 133).	nmunication.			
Status <sup>®</sup>	,							
1)⊠ Respo	nsive to communication(s) filed o	on <u>16 April 2001</u> .						
	- 1 <del>- 1</del> - 1							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of C	Claims							
4a) Of to 5) ☐ Claim(6) ☑ Claim(7) ☐ Claim(	Claim(s) 1-37 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1-37 is/are rejected.  Claim(s) is/are objected to.  Claim(s) is/are objected to restriction and/or election requirement.							
Application Pap	pers							
10)⊠ The dra Applica Replac	ecification is objected to by the Eawing(s) filed on <u>15 November 20</u> ant may not request that any objection ement drawing sheet(s) including the thor declaration is objected to by	001 is/are: a)⊠ acon to the drawing(s) be correction is require	e held in abeyance. So ed if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFF	R 1.121(d).			
Priority under 3	5 U.S.C. § 119							
12)	vledgment is made of a claim for	cuments have beer cuments have beer the priority docume I Bureau (PCT Rule	n received. n received in Applica ents have been receive e 17.2(a)).	ition No ved in this National S	Stage			
2) Notice of Draft 3) Information D	erences Cited (PTO-892) itsperson's Patent Drawing Review (PTO isclosure Statement(s) (PTO-1449 or PT Mail Date <u>101602 and 111501</u> .		4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:		152)			

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#### DETAILED ACTION

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 1. Claims 1, 13, and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Jean Walrand (U.S. Patent No. 6,674,760, and referred to as Walrand hereinafter).
- 2. Regarding independent claims 1, 13, and 25, Walrand teaches,
  - A method of classifying [classify, Col. 2, Line 28] Internet Protocol data [data stream,
     Col. 2, Line 28] to be sent from a source apparatus to a destination apparatus [end-to-end,
     Col. 2, Line 19] in a packet switch network [pocket-switch network, Col. 1, Line 11].
  - Receiving data at a first node [the first accesses node in a sub-network that receives an IP packet, Col. 2, Line 33 34].
  - Classifying [classifies] data at the first node [first accesses node] based on source routing information [IP destination address, IP source address, and a class of service identifier] of said data [IP packet] [Col. 2, Line 34 36].

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- 3. Regarding dependent claims 8, 20, and 33, Walrand teaches, data [IP pocket, Col. 2, Line 34] is received at said first node [first accesses node, Col. 2, Line 33] from said source apparatus [source, Col. 2, Line 35].
- 4. **Regarding dependent claims 9, 21, and 34,** Walrand teaches, reserving [allocate] resources of nodes [resources] from said source apparatus to said destination apparatus [end-to-end connection]. [Col. 2, Line 36 38]
- 5. Regarding dependent claims 10, 22, and 35, Walrand teaches, forwarding a request from source apparatus to first node [recognizes which end-to-end connection the packet belongs to, Col. 2, Line 36 37].
- 6. Regarding dependent claims 11, 23, and 36, Walrand teaches, storing source routing information at first node [first accesses node in a sub-network that receives an IP packet, Col. 2, Line 33 34].
- 7. Regarding dependent claims 12, 24, and 37, Walrand teaches, forwarding data from first node to a second node [data streams for both inter-subnet and intra-subnet connections, Col. 2, Line 28 29].

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#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claims 2 4, 14 16, 26 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walrand, and in view of Jacob W. Jorgensen (U.S. Patent No. 6,452,915, and referred to as Jorgensen hereinafter).

(Walrand as set forth above generally discloses the basic inventions.)

9. **Regarding Claims 2, 14 and 26**, Walrand teaches, source routing information is provided within a routing header of said data [Col. 2, Line 29 - 30].

Walrand does not teach, the data for IPv6.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6, for the purpose of upgrading.

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It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "the data for IPv6" for the purpose of upgrading.

- 10. **Regarding Claims 3, 15 and 27**, Walrand teaches, classifying is based on a destination address [Col. 2, Line 34 35] provided within router header [Col. 2, Line 30].
- 11. Regarding Claims 4, 16 and 28, Walrand teaches,
  - routing header [IP headers, Col. 2, Line 30] includes a segments left field [class of service identifier, Col. 2, Line 35 − 36], a first destination address field [IP source address, Col. 2, Line 35] and a last destination address field [IP destination address, Col. 2, Line 34 − 35].
  - Classifying [classifies, Col. 2, Line 34] is based on information within last destination address field [IP destination address, Col. 2, Line 34 35] of routing header [IP headers, Col. 2, Line 30].

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- 12. **Regarding Claim 29,** Walrand teaches, Classifying [classifies, Col. 2, Line 34] is based on information within last destination address field [IP destination address, Col. 2, Line 34 35] of routing header [IP headers, Col. 2, Line 30].
- 13. Claims 5 7, 17 19, and 30 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walrand, and in view of Jorgensen, and further in view of Charles E. Narad (U.S. Patent No. 6,157,955, and referred to as Narad hereinafter).
- 14. **Regarding Claims 5, 17, and 30**, Walrand teaches, source routing information is provided within a routing header of said data [Col. 2, Line 29 30].

Walrand does not teach, routing header with IP options like LSRR and SSRR, and the data for IPv4.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6.

Narad teaches, IP options in IP header [Col. 93, Line 43], header contain IP options [Col. 97, Line 39 – 41], and IP options, for example, LSRR, SSRR [Col. 96, Line 47 and 49]

It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "routing header with IP

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options like LSRR and SSRR, and the data for IPv4" for the purpose of using in different conditions.

15. **Regarding Claims 6, 18, and 31**, Walrand teaches, classifying is based on a destination address [Col. 2, Line 34 – 35] provided within router header [Col. 2, Line 30].

Walrand does not teach, routing header with IP options like LSRR and SSRR, and the data for IPv4.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6.

Narad teaches, IP options in IP header [Col. 93, Line 43], header contain IP options [Col. 97, Line 39 – 41], and IP options, for example, LSRR, SSRR [Col. 96, Line 47 and 49]

It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "routing header with IP options like LSRR and SSRR, and the data for IPv4" for the purpose of using in different conditions.

- 16. Regarding Claims 7, 19, and 32, Walrand teaches,
  - routing header [IP headers, Col. 2, Line 30] includes a segments left field [class of service identifier, Col. 2, Line 35 36], a first destination address field [IP source

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address, Col. 2, Line 35] and a last destination address field [IP destination address, Col. 2, Line 34 - 35].

Classifying [classifies, Col. 2, Line 34] is based on information within last destination address field [IP destination address, Col. 2, Line 34 – 35] of routing header [IP headers, Col. 2, Line 30].

Walrand does not teach, routing header with IP options like LSRR and SSRR, and the data for IPv4.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6.

Narad teaches, IP options in IP header [Col. 93, Line 43], header contain IP options [Col. 97, Line 39 – 41], and IP options, for example, LSRR, SSRR [Col. 96, Line 47 and 49]

It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "routing header with IP options like LSRR and SSRR, and the data for IPv4" for the purpose of using in different conditions.

#### Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Narad et al. (U.S. Patent No. 6,401,117) discloses an IP options, a SSRR, a LSRR, a

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classifying, pocket-process platform. Narad et al. (U.S. Patent No. 6,421,730) discloses an IP options, a SSRR, a LSRR, a classifying, pocket-process platform.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunray Chang whose telephone number is 703-305-8744. The examiner can normally be reached on M-F 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on (703)308-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-746-3506.

Sunray Chang
Patent Examiner
Group Art Unit 2121
Technology Center 2100
U.S. Patent and Trademark Office

August 24, 2004

Anthony Knight

Supervisory Patent Examiner

Group 3600